

Variable	Mean	SD	Min	Max
Age	34.5	10.2	21	55
Gender	Male	Female		
Marital status	Married	Single		
Education	High school	College		
Occupation	Manager	Worker		
Income	Low	High		
Health status	Good	Poor		
Smoking status	Smoker	Non-smoker		
Alcohol consumption	Regular	Occasional		
Exercise frequency	High	Low		
Stress level	High	Low		
Sleep quality	Good	Poor		
Dietary habits	Healthy	Unhealthy		
Family size	Small	Large		
Work-life balance	Good	Poor		
Life satisfaction	High	Low		
Overall well-being	Good	Poor		

1                    1.                    A dialysis catheter comprising:

2                    a tube having an implantable portion extending from an external patient

3                    portion, the implantable portion having a curved segment between the external

4                    patient portion and a distal end of the implantable portion;

5                    a first lumen extending through the tube from a first lumen port in the

6                    external patient portion to a first lumen port in the curved segment of the

7                    implantable portion; and

8                    a second lumen extending through the tube from a second lumen port in

9                    the external patient portion to a second lumen port in the implantable portion, the

10                    second lumen port in the implantable portion being spaced away from the first

11                    lumen port in the curved segment.

1                    2.                    The dialysis catheter of claim 1, further comprising at least

2                    one implant cuff on the implantable portion of the tube.

1                    3.                    The dialysis catheter of claim 1, wherein the first lumen port

2                    in the curved segment comprises a plurality of openings at an outer radial surface

3                    of the curved segment.

1                    4.                    The dialysis catheter of claim 3, wherein the plurality of

2                    openings are substantially round holes.

1                    5.                    The dialysis catheter of claim 3, wherein the plurality of

2                    openings are slots.

- 1           6.       The dialysis catheter of claim 1, wherein the implantable  
2       portion has a coiled shape at the distal end.
- 1           7.       The dialysis catheter of claim 6, wherein the second lumen  
2       port in the implantable portion comprises a plurality of holes.
- 1           8.       The dialysis catheter of claim 6, wherein the second lumen  
2       port in the implantable portion comprises a plurality of slots.
- 1           9.       The dialysis catheter of claim 1, wherein the implantable  
2       portion has a substantially straight shape at the distal end.
- 1           10.      The dialysis catheter of claim 9, wherein the second lumen  
2       port in the implantable portion comprises a plurality of holes.
- 1           11.      The dialysis catheter of claim 9, wherein the second lumen  
2       port in the implantable portion comprises a plurality of slots.
- 1           12.      The dialysis catheter of claim 1, wherein the tube is a single  
2       tube having a septum between the first and second lumens.
- 1           13.      The dialysis catheter of claim 1, wherein the first lumen port  
2       in the curved segment is a patient inflow port.
- 1           14.      The dialysis catheter of claim 1, wherein the second lumen  
2       port in the implantable portion is a patient outflow port.
- 1           15.      The dialysis catheter of claim 1, wherein the first lumen  
2       terminates prior to the distal end of the implantable portion.
- 1           16.      A dialysis catheter comprising:

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1            21.            The dialysis catheter of claim 16, wherein the connection  
2            section, patient inflow section, separation section, and patient outflow section

1           26.       The peritoneal dialysis catheter of claim 25, wherein the  
2       second fluid opening is located at a non-linear shaped section of the implantable

3 portion.

1 27. The peritoneal dialysis catheter of claim 25, wherein the  
2 second and fourth fluid openings are separated by a substantially linear tube  
3 section which is absent fluid openings to an exterior of the catheter.

1 28. The peritoneal dialysis catheter of claim 25, wherein the  
2 second fluid opening is located at a vertically uppermost portion of the implantable  
3 portion and the fourth fluid opening is located at a vertically lowermost portion of  
4 the implantable portion.

1 29. A dialysis catheter comprising:  
2 a substantially straight connection section;  
3 a non-linear patient inflow section extending from the connection section;  
4 a separation section extending from the patient inflow section;  
5 a patient outflow section extending from the separation section;  
6 a patient inflow lumen extending from the connection section to the  
7 patient inflow section; and  
8 a patient outflow lumen extending from the connection section to the  
9 patient outflow section.

1 30. The dialysis catheter of claim 29, wherein the separation  
2 section has a substantially straight shape.

1 31. The dialysis catheter of claim 29, wherein the patient outflow  
2 section has a coiled shape.

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1           32.       The dialysis catheter of claim 29, wherein the patient inflow  
2 section has a curved shape of about 180°.

1           33.       A peritoneal dialysis catheter having first and second  
2 lumens, comprising:  
3 a dialysis machine connection section having fluid ports to the first and  
4 second lumens;  
5 a non-linear section extending from the connection section and having a  
6 fluid port to the first lumen;  
7 a separation section extending from the non-linear section; and  
8 a distal end section extending from the separation section and having a  
9 fluid port to the second lumen.

10          34.       The peritoneal dialysis catheter of claim 33, wherein the first  
11 lumen is a patient inflow lumen and the second lumen is a patient outflow lumen.

12          35.       The peritoneal dialysis catheter of claim 33, wherein the non-  
13 linear section has a curved shape and the fluid port in the non-linear section is  
14 pointed in a direction opposite the fluid port in the distal end section.

15          36.       A method of flowing fluid through a catheter comprising the  
16 steps of:  
17 flowing fluid into a first lumen at a proximal end of the catheter;  
18 flowing the fluid in the first lumen to a curved path of the first lumen;  
19 flowing the fluid in the curved path through a fluid opening in the curved

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1 path and out of the catheter;  
2 flowing the fluid which exited the catheter from the opening in the curved  
3 path into a second lumen at a distal end of the catheter; and  
4 flowing the fluid in the second lumen to a fluid opening at the proximal  
5 end of the catheter and out of the catheter.

1 37. A method of implanting a catheter into a patient comprising  
2 the steps of:

3 straightening the catheter with a stylet inside of the catheter;  
4 inserting a distal end of the straightened catheter through an entrance  
5 incision into a peritoneal cavity of the patient while directing the straightened  
6 catheter downward;  
7 removing part of the stylet from the catheter while advancing the catheter  
8 into the peritoneal cavity until the distal end is located in a lower area of the  
9 peritoneal cavity and a distal implant cuff is seated in a rectus muscle of the  
10 patient;

11 rotating a portion of the stylet and catheter outside of the patient  
12 downward and a portion of the stylet and catheter inside of the patient upward;  
13 and

14 pulling the catheter through a subcutaneous tunnel having an exit site  
15 below the entrance incision.

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